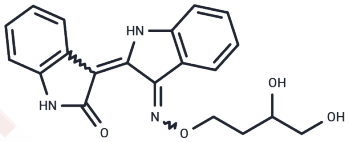
Data Sheet (Cat.No.T11654)

TargetMol

Indirubin Derivative E804

Chemical Properties



CAS No. : 854171-35-0

Formula: C20H19N3O4

Molecular Weight: 365.38

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Indirubin Derivative E804 is a potent insulin-like growth factor type 1 receptor (IGF1R) inhibitor with potential antitumor activity.
Targets(IC50)	IGF-1R
In vitro	Indirubin Derivative E804 is a water-soluble derivative that effectively inhibits insulin-like growth factor 1 receptor (IGF1R) with an IC50 of 0.65 μM. In addition, Indirubin Derivative E804 also inhibits CDK2/CycE with an EC50 of 0.23 μM. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (273.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.95 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7369 mL	13.6844 mL	27.3688 mL
5 mM	0.5474 mL	2.7369 mL	5.4738 mL
10 mM	0.2737 mL	1.3684 mL	2.7369 mL
50 mM	0.0547 mL	0.2737 mL	0.5474 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cheng X, et al. Identification of a Water-Soluble Indirubin Derivative as Potent Inhibitor of Insulin-like Growth Factor 1 Receptor through Structural Modification of the Parent Natural Molecule. J Med Chem. 2017 Jun 22;60(12): 4949-4962.